PROJECT NUMBER: 2304
PROJECT TITLE: Flavor Development - New Products
PROJECT LEADER: Barbara G. Taylor
PERIOD COVERED: April, 1988

I. FILTER ADDITIVES

A. **Objective**: A. Evaluate the effects of filter additives on the subjective characteristics of cigarette smoke (evaluations on blends and blend components. B. Use filter additives to modify and enhance the most desirable smoke characteristics.

B. **Status**: GCC Marlboro cigarette models were made using filters with triacetin (8%) and citric acid at various levels (0.0, 1.95, 2.85 and 3.10 mg) via dual application. In another model, glycerine was applied to prevent the delivery roller from gumming up. The analytical results show a significant reduction in the nicotine delivery of the test models with citric acid. Accelerated aging studies have been initiated to evaluate the effects on nicotine delivery.

Investigations of alternate PZ's are under way to eliminate the need for a dual application of the citric acid. Triethyl citrate (TEC) and Carbowax 750 were being considered, however, Carbowax 750 has machineability problems. The use of TEC is being evaluated further.

II. FOAM BOUND RODS

A. **Objective**: To achieve reduced tobacco weights in PM products via use of the foam bound technology.

B. **Status**: Subjective results have been completed on the models with Star Dri maltodextrin. The results show significant differences between the test and control. Models from run 147 using OBI apple pectin have been subjectively evaluated, the results are being tabulated.

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